

Fully demineralized water



Produce it at a  
lower cost!  
Thermo Scientific  
Ion exchangers!



Deionized water for  
autoclaves, washers, automatic  
analyzers, ultrapure  
water systems...

**Thermo**  
SCIENTIFIC

**Fully demineralized water  
Produce it at a lower cost!**



## Thermo Scientific Ion exchangers. The complete product line.

From the smallest to the largest type - all work according to the practice-proven principle of ion exchange by passage through a mixed-bed of specially selected resins. They are all:

- Economical  
due to the optimal flow-design for 100% utilization of capacity
- Reliable  
Because the water quality is always good, with no loss on storage
- Environmentally friendly  
as the resins have long service lives and are almost unlimitedly often regeneratable.

When necessary - after several months of usage - the resins can be regenerated, time and again. This is a job for us.

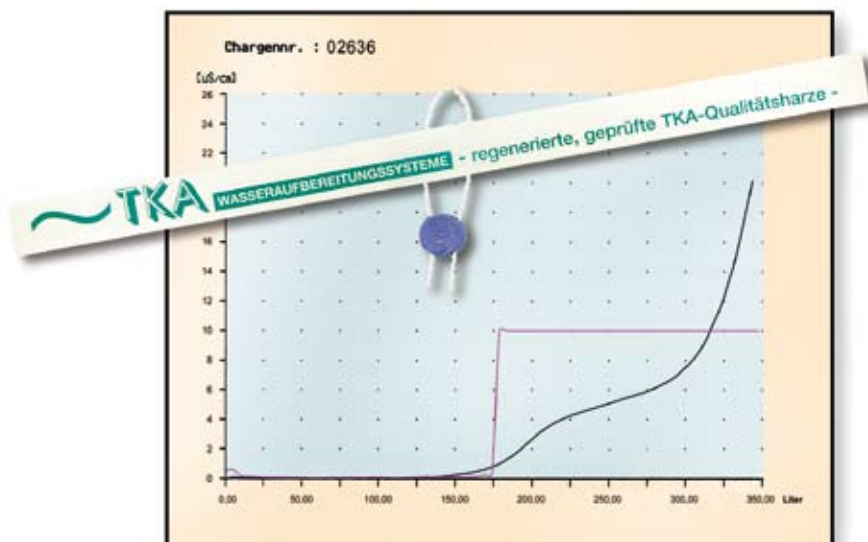
### Documented quality monitoring of Thermo Scientific mixed-bed resins.

Ion exchangers that are to reliably function require not only proven technology and high-grade chemicals, but also a state-of-the-art regeneration service with recorded evidence of the batch monitoring of the parameters capacity and quality.

- Receiving inspection
- Batch test record
- TOC-Monitoring
- DIN EN ISO 9001 : 2000

### The proper system for each need.

Whichever amount you need - a few litres per week or large volumes daily - we have the most suitable system for economical conversion of your tap water to demineralized, completely deionized water of constant high quality. Complete with the optimal flow-design for 100% utilization of the capacity.



## Ion exchange resin regeneration with TOC-control!

Our regeneration facility is one of the few in Europe that not only has DIN EN ISO 9001 certification and carries out batch testing, but additionally monitors the TOC-value of the regenerated resins.

Our Quality Assurance, with the Thermo Scientific test certificate, intact seal and TKA sealing tape, guarantees you maximum capacity at a continuing high quality.



Thermo Scientific DI 425

Thermo Scientific  
DI 750

## ■ Compact design for small volumes. Plastic ion exchange systems.

Small and compact, these systems provide completely demineralized water of the same quality as is provided by the larger systems. Ideal for small laboratories but also for supplying autoclaves and washers in doctors' and dentists' practices.

### Thermo Scientific DI 425

Pressureless plastic system consisting of a practical disposable cartridge, an analog conductivity meter, a hose set and a wall mount. Excellently suited for the preparation of small volumes of water to fulfill daily requirements of up to 10 litres.

### Thermo Scientific DI 750

Compact pressureless plastic cartridge complete with analog conductivity meter and hose set. Water flows from bottom to top for particularly economical optimal utilization! Ideal for daily requirements of up to 50 litres.

Both of the above systems supply water of outstandingly good quality, so that neither streaks nor stains are left on instruments and no pitting occurs.

Thermo Scientific Mixed-bed water deionizers plastic design	DI 425 pressureless	DI 750 pressureless
Flow rate:	50 L/h	100 L/h
Capacity at 10° TDS*:	425 L	750 L
Purified water quality µS/cm:	0.1 – 20	0.1 – 20
Water temp. max.:	30° C	30° C
Line connection V/Hz:	230 / 50-60	230 / 50-60
Material:	Polyethylene	Polyethylene
Dimensions, mm (diam. x height):	100 x 600**	175 x 480**
Connectors:	R 3/4"	R 3/4"
Weight approx.:	3 kg	7 kg
Article no.:	01.0425	01.1705
Replacement cartridge:	01.0426	01.1750
Disposable resin for 2 cartridge fillings:	—	10.2005
Wall mount:	– incl. –	03.1404

\* total dissolved solids

\*\* incl. conductivity meter



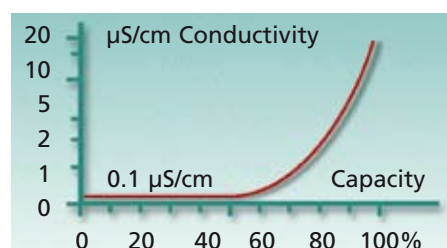
■ **For requirements from 300 to 3000 L/h**  
**Practice-proven mixed-bed systems for**  
**fully demineralized water.**

Thermo Scientific  
 DI Ion exchange  
 cartridges for up to  
 1000 L/h



Optimal performance is ensured by the flow design and the quality-controlled ion exchanger resins. Provide fully demineralized water with only a very low conductivity over almost the whole of their total capacity. Reproducible in their same constant quality.

For higher performances or special demands on the purified water quality, please request information on our Thermo Scientific reverse osmosis systems. We will gladly supply details!



The connection between conductivity and capacity

Thermo Scientific	DI 1500	DI 2000	DI 2800	DI 4000	DI 6000
Mixed-bed water deionizer,	pressure resistant	pressure resistant	pressure resistant	pressure resistant	pressure resistant
V4A stainless steel design	up to 10 bar	up to 10 bar	up to 10 bar	up to 10 bar	up to 10 bar
Flow rate	300 L/h	300 L/h	950 L/h	1000 L/h	1000 L/h
Capacity at 10° TDS*	1500 L	2000 L	2800 L	4000 L	6000 L
Purified water quality, µS/cm	0.1 – 20	0.1 – 20	0.1 – 20	0.1 – 20	0.1 – 20
Water temperature max.	30° C	30° C	30° C	30° C	30° C
Material	Stainless steel V4A	Stainless steel V4A	Stainless steel V4A	Stainless steel V4A	Stainless steel V4A
Dimensions, mm (Ø x height)	240 x 410	240 x 490	240 x 600	240 x 700	240 x 1155
Connectors	R 3/4"	R 3/4"	R 3/4"	R 3/4"	R 3/4"
Weight approx.	14 kg	18 kg	24 kg	27 kg	45 kg
Article no.	02.1500	02.2000	02.2800	02.4000	02.6000
Wall mount	03.1405	03.1405	03.1405	03.1405	03.1405

\* total dissolved solids

Cartridges can be equipped with quick-connectors on request



#### Thermo Scientific DI Ion exchange cartridges

Completely made of V4A stainless steel. Pressure-resistant up to 10 bar. Particularly economical for purified water requirements of up to 150 L/day.

TKA DI Industrial  
ion exchange  
cartridges for  
up to 3000 L/h

#### Thermo Scientific DI Industrial ion exchange cartridges

Extremely large capacity and high flow rate - designed for industrial applications. Pressure-resistant up to 10 bar, made of V4A stainless steel.



Thermo Scientific Mixed-bed water deionizers,	DI 7000	DI 11000	DI 15000
<b>V4A stainless steel design</b>	pressure resistant up to 10 bar	pressure resistant up to 10 bar	pressure resistant up to 10 bar
<b>Flow rate</b>	2000 L/h	2500 L/h	3000 L/h
<b>Capacity at 10° TDS*</b>	7000 L	11000 L	15000 L
<b>Purified water quality, µS/cm</b>	0.1 – 20	0.1 – 20	0.1 – 20
<b>Water temperature max.</b>	30° C	30° C	30° C
<b>Material</b>	Stainless steel V4A	Stainless steel V4A	Stainless steel V4A
<b>Dimensions, mm (Ø x height)</b>	363 x 660	363 x 850	363 x 1100
<b>Connectors</b>	R ¾"	R ¾"	R ¾"
<b>Weight approx.</b>	55 kg	70 kg	90 kg
<b>Article no.</b>	02.7000	02.11000	02.15000

\* total dissolved solids  
Cartridges can be equipped with quick-connectors on request.

# Thermo Scientific Measuring instruments, high-precision.

## Illuminated display

with 3 1/2 place display of conductivity in  $\mu\text{S}/\text{cm}$  or  $\text{M}\Omega\times\text{cm}$  as well as of temperature in  $^{\circ}\text{C}$

## LEDs'

indicate that the display shows conductivity, megohm or temperature

## Limiting values

Continuously variable setting of limiting values for temperature and conductivity



## Acoustic and optical signals

when a limiting value is exceeded

## Control 330

Digital conductivity meter for a continuous control of quality. Exact temperature measurement and an integrated reference resistor allow high-precision measurements with digital accuracy to be made even in the lowest conductivity range. Fully automatic matching prior to each measurement.

The standard version is also available with a potential-free contact or with a solenoid valve. Option of an RS-232 interface for documentation and connection to a printer (09.2207). Ideal for on-line measurements of high-purity and ultrapure water at the outlet of ion exchanger cartridges as well as for monitoring loop lines.

### Technical data

Measurement range, conductivity	0.055 – 199.9 $\mu\text{S}/\text{cm}$ (automatic switchover at 9.99)
Measurement range, temperature	0.1 – 99.9 $^{\circ}\text{C}$
Temperature compensation	automatic
Limiting value setting, conductivity	0.055 - 30 $\mu\text{S}/\text{cm}$ stepless
Limiting value setting, temperature	10 – 40 $^{\circ}\text{C}$ stepless
Signals when a limiting value is exceeded	green/red alternation of the LED + buzzer, both limiting values can be switched off
Interface (option only)	RS 232 (04.1806 + 04.1807)
Line connection	110/230 V / 50-60 Hz
Voltage, measuring instrument	12 Volt DC
Protection	IP 54
Dimensions in mm	W 75 x D 30 x H 130
Positioning	Wall mounting
Connector	R 3/4"

Instrument	Control 330	Control 330	Control 330
Version		with potential-free contact	with solenoid valve
Article no.	04.1805*	04.1806*	04.1807*
Article no.	04.1805-SVE**	04.1806-SVE**	04.1807-SVE**

\* (only for stainless steel cartridges with R 3/4")

\*\* (only for stainless steel cartridges with quick-connects)

### Thermo Scientific Control 330 digital conductivity meter

Ready-to-connect, complete with connecting cable, plug power unit, 2 x 1.5 m hoses, R 3/4" female thread and measuring cell. Versions SV and SVE are supplied with hoses with quick-connects.



## ■ Analog 50 R 3/4" conductivity meter

The simple and reliable conductivity meter for the quality control of high purity water.

With analog display of measured values in  $\mu\text{S}/\text{cm}$ , measuring range 0 – 50  $\mu\text{S}/\text{cm}$ .

### Thermo Scientific Analog 50 conductivity meter

complete with 2 x 1.5 m hoses, R 3/4" female thread and measuring cell

Instrument	Analog 50
Version	Standard
Article no.	04.1601*
Article no.	04.1609**

\* only for Ion ex. 02.1500 – 02.15000

\*\* only for DI 750, Nr. 01.1705

**Original accessories  
ensure long-lasting purified water quality.**



**Thermo Scientific Shutoff valve**  
Made of plastic. Dimensions:  
40 x 70 x 150 mm. No. 03.1403



**Thermo Scientific Purified water outlet tap.** Made of plastic, straight. Connector R 3/4", coupling nut. Dimensions: 50 x 50 x 120 mm. No. 03.1400



**Thermo Scientific Distribution manifold.** Made of plastic. 1 inlet, 3 outlets to which shutoff and distributing taps can be connected. R 3/4" connectors. No. 03.1402



**Thermo Scientific Distribution manifold.** Made of plastic. 1 inlet, 2 outlets to which shutoff and distributing taps can be connected. R 3/4" connectors. No. 03.1420



**Thermo Scientific Dispenser and sterile filter.** For connection to pressure-resistant TKA ion exchange cartridges for producing Aqua Purificata.

- Dispenser without wall mount: No. 03.1408
- Dispenser with wall mount: No. 03.1409
- Sterile filter for dispenser, 0.2  $\mu\text{m}$  pore size, performance 10 – 90 L/h, No. 09.1003



**Thermo Scientific Purified water outlet tap.** Made of plastic, angled. Connector R 3/4", coupling nut. Dimensions: 50 x 90 x 140 mm. No. 03.1401



Your dealer: